

**IN THE CLAIMS:**

Please AMEND the claims and ADD new claims as follows:

1. (Currently Amended) An optical transmission apparatus with an optical add/drop function used in an optical wavelength multiplex network, comprising:

an optical branching coupler for dividing an input wavelength multiplexed optical signal into a wavelength multiplexed optical signal, which is called a passing signal, and another wavelength multiplexed optical signal, which is called a dropping signal;

a variable wavelength filter for extracting a first optical signal at a predetermined wavelength from the dropping signal that is branched by the optical branching coupler;

a fixed wavelength laser for generating a second optical signal that is to be inserted;

a blocking filter for blocking a third optical signal contained in the passing signal that is branched by the optical branching coupler, said third optical signal having a wavelength that is the same as the second optical signal that is to be inserted; and

an optical coupler for coupling the passing signal that is not blocked by and passes the blocking filter, and the second optical signal that is to be inserted.

2. (Currently Amended) The optical transmission apparatus as claimed in claim 1, wherein ~~said blocking filter and said optical coupler are combined into one body~~

the blocking filter and the optical coupler comprise a rejection/add filter that blocks the third optical signal and inserts the second optical signal.

3. (Currently Amended) An optical transmission apparatus with an optical add/drop function used in an optical wavelength multiplex network, comprising:

~~The optical transmission apparatus as claimed in claim 1, wherein said~~

an optical branching coupler for dividing an input wavelength multiplexed optical signal into a wavelength multiplexed optical signal, which is called a passing signal, and another wavelength multiplexed optical signal, which is called a dropping signal;

a fixed wavelength filter for extracting the a first optical signal at a predetermined wavelength from the dropping signal that is branched by the optical branching coupler; is capable of changing the wavelength of the first optical signal to be extracted

a variable wavelength laser for generating a second optical signal that is to be inserted;

a blocking filter for blocking a third optical signal contained in the passing signal that is branched by the optical branching coupler, said third optical signal having a wavelength that is the same as the second optical signal that is to be inserted; and

an optical coupler for coupling the passing signal that is not blocked by and passes the blocking filter, and the second optical signal that is to be inserted..

4. (Currently Amended) The optical transmission apparatus as claimed in claim 43, wherein ~~said laser is capable of changing the wavelength of the second optical signal to be generated~~

the blocking filter and the optical coupler comprise a rejection/add filter that blocks the third optical signal and inserts the second optical signal.

5. (Currently Amended) The optical transmission apparatus as claimed in claim 1, wherein ~~said blocking filter passes only a predetermined group of wavelengths~~

a wavelength of the second optical signal generated by the fixed wavelength laser is fixed, and the predetermined wavelength of the first optical signal extracted by the variable wavelength filter is arbitrarily set.

6. (Currently Amended) The optical transmission apparatus as claimed in claim 23, wherein ~~said one body combining said blocking filter and said optical coupler passes only a predetermined group of wavelengths, and inserts only a predetermined group of wavelengths~~

a wavelength of the second optical signal generated by the variable wavelength laser is fixed, and the predetermined wavelength of the first optical signal extracted by the fixed wavelength filter is arbitrarily set.

7. (Currently Amended) The optical transmission apparatus as claimed in claim ~~3~~1, wherein said filter

the variable wavelength filter is one of an AOTF, a dielectric multilayer filter, an FGB type filter, and a Fabry-Perot type filter.

8. (Original) The optical transmission apparatus as claimed in claim 1, further comprising a protection unit that comprises an optical coupler and an optical switch.

9. (Currently Amended) An optical wavelength multiplex network, comprising:  
the optical transmission apparatus as claimed in claim 1, and  
a double ring optical loop network that comprises a HUB and two optical loops,  
wherein

the two loops are configured to transmit signals in opposite directions with respect to each other.

10. (Original) The optical wavelength multiplex network as claimed in claim 9, wherein said HUB comprises an optical demultiplexer, an optical coupler, an optical switch, and an optical multiplexer.

11. (Original) The optical wavelength multiplex network as claimed in claim 9, wherein said HUB comprises an optical filter.

12. (Original) The optical wavelength multiplex network as claimed in claim 9, wherein said HUB comprises an optical demultiplexer, a MEMS, and an optical multiplexer.

13. (Original) The optical wavelength multiplex network as claimed in claim 9, wherein said HUB comprises a protection unit that comprises an optical coupler and an optical

switch.

14. (New) An optical wavelength multiplex network, comprising:

the optical transmission apparatus as claimed in claim 3; and

a double optical loop network that comprises a HUB and two optical loops,

wherein

the two loops are configured to transmit signals in opposite directions with respect to each other.

15. (New) The optical transmission apparatus as claimed in claim 3, further comprising a protection unit that comprises an optical coupler and an optical switch.